

Alive Mac 1

Sample ID: ALMAC25345
 Strain: Alive Mac 1
 Matrix: Other
 Type: Pure Terpenes
 Batch#: ALMAC25345

Collected: 7/04/2025
 Received: 7/04/2025
 Completed: 7/05/2025
 Sample Size: 5g

Results:

Test	Date Tested	Instr. Method	Results
Batch			
Cannabinoids	7/06/2025	LC-DAD	Pass
Terpenes	7/06/2025	GC-MS	Complete
Pesticides	7/06/2025	LC-MS	Complete
Residual Solvents	7/06/2025	HS-GC-MS	Pass
Heavy Metals	7/06/2025	ICP-MS	Pass

All raw materials used in the production of Loud Spectrum products are tested for pesticides, heavy metals, residual solvents, and potency. The referenced raw material 3rd party results are attached at the end of this COA document.

Cannabinoids

Method: SOP EL-CANNABINOIDS

ND Total THC	ND Total CBD	ND Total Cannabinoids
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Analytes	LOD	LOQ	Result	Result
	mg/g	mg/g	%	mg/g
THCa	0.250	0.757	ND	ND
Δ9-THC	0.267	0.810	ND	ND
Δ8-THC	0.295	0.895	ND	ND
THCVa	0.288	0.873	ND	ND
THCV	0.298	0.903	ND	ND
CBDa	0.262	0.793	ND	ND
CBD	0.252	0.765	ND	ND
CBN	0.238	0.720	ND	ND
CBGa	0.284	0.862	ND	ND
CBG	0.262	0.794	ND	ND
CBCa	0.232	0.702	ND	ND
CBC	0.272	0.825	ND	ND
Total THC			ND	ND
Total CBD			ND	ND
Total Cannabinoids			ND	ND
Sum of Cannabinoids			ND	ND

Total THC = THCa * 0.877 + Δ9-THC + Δ8-THC; Total CBD = CBDa * 0.877 + CBD; Total Cannabinoids = (cannabinoid acid forms * 0.877) + cannabinoids; Sum of Cannabinoids = cannabinoid acid forms + cannabinoids; LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected. The reported result is based on a sample weight with the applicable moisture content for that sample. Foreign Material Method: SOP EL-FOREIGN; Moisture and Water Activity Method: SOP EL-WATER

Alive Mac 1

Sample ID: ALMAC25345
Strain: Alive Mac 1
Matrix: Other
Type: Pure Terpenes
Batch#: ALMAC25345

Collected: 7/04/2025
Received: 7/04/2025
Completed: 7/05/2025
Sample Size: 5g

Terpenes

Method: EL-TERPENES

Analytes	LOD	LOQ	Result
	mg/g	mg/g	mg/g
b-Myrcene	1.098	4.706	148.92
a-Pinene	0.684	4.706	12.98
d-Limonene	0.569	4.706	90.35
b-Pinene	0.639	4.706	27.32
b-Caryophyllene	1.191	4.706	172.76
a-Humulene	0.462	4.706	61.90
Terpinolene	1.022	4.706	<LOQ
Camphene	0.405	4.706	75.45
Fenchol	0.652	4.706	11.99
Linalool	0.732	4.706	19.97
d-3-Carene	0.562	4.706	<LOQ
a-Terpinene	0.845	4.706	<LOQ
p-Cymene	0.440	4.706	<LOQ
Eucalyptol	0.787	4.706	<LOQ
γ-Terpinene	0.842	4.706	<LOQ
Fenchone	0.750	4.706	<LOQ
Camphor	0.845	7.059	<LOQ
Borneol	1.037	4.706	<LOQ
Valencene	1.217	4.706	<LOQ
cis-Nerolidol	1.179	4.706	199.67
trans-Nerolidol	1.526	4.706	<LOQ
Caryophyllene Oxide	1.408	4.706	<LOQ
Guaiol	1.384	4.706	<LOQ
α-Bisabolol	1.422	4.706	<LOQ
Sabinene	0.462	4.706	<LOQ
Sabinene Hydrate	0.893	4.706	<LOQ
Isopulegol	1.445	9.412	<LOQ
Isoborneol	0.405	4.706	<LOQ
Menthol	1.442	4.706	<LOQ
Nerol	0.983	23.529	<LOQ
Pulegone	0.974	4.706	<LOQ
Geraniol	1.349	23.529	<LOQ
α-Cedrene	0.845	4.706	<LOQ
Cedrol	0.804	4.706	<LOQ

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.

Alive Mac 1

Sample ID: ALMAC25345
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Matrix: Other
Type: Pure Terpenes
Batch#: ALMAC25345

Collected: 7/04/2025
Received: 7/04/2025
Completed: 7/05/2025
Sample Size: 5g

Pesticides

Method: EL-PESTMYCOLCMS

Analytes	LOD	LOQ	Limit	Result	Status	Analytes	LOD	LOQ	Limit	Result	Status
	µg/g	µg/g	µg/g	µg/g			µg/g	µg/g	µg/g	µg/g	
Abamectin	0.005	0.02	0.30	ND	Pass	Fludioxonil	0.01	0.05	30.00	ND	Pass
Acephate	0.002	0.01	5.00	ND	Pass	Hexythiazox	0.005	0.02	2.00	ND	Pass
Acequinocyl	0.01	0.02	4.00	ND	Pass	Imazalil	0.05	0.1	0.05	ND	Pass
Acetamiprid	0.005	0.02	5.00	ND	Pass	Imidacloprid	0.005	0.02	3.00	ND	Pass
Aldicarb	0.05	0.1	0.05	ND	Pass	Kresoxim Methyl	0.005	0.02	1.00	ND	Pass
Azoxystrobin	0.005	0.02	40.00	ND	Pass	Malathion	0.02	0.05	5.00	ND	Pass
Bifenazate	0.005	0.01	5.00	ND	Pass	Metalaxyl	0.002	0.005	15.00	ND	Pass
Bifenthrin	0.02	0.05	0.50	ND	Pass	Methiocarb	0.05	0.1	0.05	ND	Pass
Boscalid	0.02	0.05	10.00	ND	Pass	Methomyl	0.01	0.02	0.10	ND	Pass
Captan	0.2	0.3	5.00	ND	Pass	Parathion Methyl	0.02	0.05	0.02	ND	Pass
Carbaryl	0.02	0.05	0.50	ND	Pass	Mevinphos	0.02	0.05	0.02	ND	Pass
Carbofuran	0.05	0.1	0.05	ND	Pass	Myclobutanil	0.005	0.01	9.00	ND	Pass
Chlorantraniliprole	0.002	0.01	40.00	ND	Pass	Naled	0.01	0.02	0.50	ND	Pass
Chlordane	0.05	0.1	0.05	ND	Pass	Oxamyl	0.005	0.01	0.20	ND	Pass
Chlorfenapyr	0.05	0.1	0.05	ND	Pass	Paclobutrazol	0.05	0.1	0.05	ND	Pass
Chlorpyrifos	0.05	0.1	0.05	ND	Pass	PCNB	0.02	0.05	0.20	ND	Pass
Clofentezine	0.01	0.02	0.50	ND	Pass	Permethrin	0.02	0.05	20.00	ND	Pass
Coumaphos	0.02	0.05	0.02	ND	Pass	Phosmet	0.01	0.02	0.20	ND	Pass
Cyfluthrin	0.05	0.1	1.00	ND	Pass	Piperonyl Butoxide	0.02	0.05	8.00	ND	Pass
Cypermethrin	0.1	0.2	1.00	ND	Pass	Prallethrin	0.005	0.02	0.40	ND	Pass
Daminozide	0.02	0.05	0.02	ND	Pass	Propiconazole	0.005	0.01	0.10	ND	Pass
Diazinon	0.002	0.01	0.20	ND	Pass	Propoxure	0.05	0.1	0.05	ND	Pass
Dichlorvos	0.02	0.05	0.02	ND	Pass	Pyrethrins	0.02	0.05	1.00	ND	Pass
Dimethoate	0.02	0.05	0.02	ND	Pass	Pyridaben	0.005	0.01	3.00	ND	Pass
Dimethomorph	0.005	0.02	20.00	ND	Pass	Spinetoram	0.005	0.01	3.00	ND	Pass
Ethoprophos	0.05	0.1	0.05	ND	Pass	Spinosad	0.005	0.01	3.00	ND	Pass
Etofenprox	0.05	0.1	0.05	ND	Pass	Spiromesifen	0.01	0.02	12.00	ND	Pass
Etoxazole	0.005	0.02	1.50	ND	Pass	Spirotetramat	0.005	0.01	13.00	ND	Pass
Fenhexamid	0.005	0.02	10.00	ND	Pass	Spiroxamine	0.05	0.1	0.05	ND	Pass
Fenoxycarb	0.05	0.1	0.05	ND	Pass	Tebuconazole	0.005	0.01	2.00	ND	Pass
Fenpyroximate	0.005	0.02	2.00	ND	Pass	Thiacloprid	0.02	0.05	0.02	ND	Pass
Fipronil	0.05	0.1	0.05	ND	Pass	Thiamethoxam	0.005	0.01	4.50	ND	Pass
Flonicamid	0.01	0.02	2.00	ND	Pass	Trifloxystrobin	0.005	0.01	30.00	ND	Pass

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.

Alive Mac 1

Sample ID: ALMAC25345
Strain: Alive Mac 1
Matrix: Other
Type: Pure Terpenes
Batch#: ALMAC25345

Collected: 7/04/2025
Received: 7/04/2025
Completed: 7/05/2025
Sample Size: 5g

Residual Solvents

Method: EL-RES_SOLVENTS

Analytes	LOD	LOQ	Limit	Result	Status
	µg/g	µg/g	µg/g	µg/g	
Acetone	100.00	300.00	5000	ND	Pass
Acetonitrile	100.00	300.00	410	ND	Pass
Benzene	0.90	2.80	1	ND	Pass
Butane	100.00	300.00	5000	ND	Pass
Chloroform	1.00	2.90	1	ND	Pass
Ethanol	100.00	300.00	5000	ND	Pass
Ethyl-Acetate	100.00	300.00	5000	ND	Pass
Ethyl-Ether	100.00	300.00	5000	ND	Pass
Ethylene Oxide	0.80	2.40	1	ND	Pass
Heptane	100.00	300.00	5000	ND	Pass
n-Hexane	100.00	300.00	290	ND	Pass
Isopropanol	100.00	300.00	5000	ND	Pass
Methanol	100.00	300.00	3000	ND	Pass
Methylene-Chloride	1.00	3.10	1	ND	Pass
1,2-Dichloro-Ethane	1.00	2.90	1	ND	Pass
Pentane	100.00	300.00	5000	ND	Pass
Propane	100.00	300.00	5000	ND	Pass
Toluene	100.00	300.00	890	ND	Pass
Xylenes	200.00	600.00	2170	ND	Pass
Trichloroethene	1.00	2.90	1	ND	Pass

Date Tested: 06/12/2023

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.

*Residual Solvents analysis values derived from a modified method.

*LODs/LOQs raised by a factor of 10x.

Heavy Metals

Method: SOP EL-HEAVYMETALS

Analytes	LOD	LOQ	Limit	Result	Status
	µg/g	µg/g	µg/g	µg/g	
Arsenic	0.012	0.036	1.500	ND	Pass
Cadmium	0.015	0.044	0.500	ND	Pass
Lead	0.055	0.167	0.500	ND	Pass
Mercury	0.005	0.015	3.000	ND	Pass

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.

RM 1-41

METRC Batch:
METRC Sample:
Sample ID: 2402ENC1774_5453
Strain: RM 1-41
Matrix: Other
Type: Pure Terpenes
Batch#:

Collected: 02/23/2024
Received: 02/23/2024
Completed: 02/28/2024
Sample Size: 1 units;

Distributor
Loud Spectrum

Lic. #
1907 N Main St,
Santa Ana, CA, 92706



Summary

Test	Date Tested	Instr. Method	Result
Batch			Pass
Cannabinoids	02/23/2024	LC-DAD	Complete
Pesticides	02/27/2024	LC-MS	Pass
Residual Solvents	02/23/2024	HS-GC-MS	Pass
Heavy Metals	02/26/2024	ICP-MS	Pass

Cannabinoids

Method: SOP EL-CANNABINOIDS

ND Total THC	ND Total CBD	ND Total Cannabinoids
------------------------	------------------------	---------------------------------

Analytes	LOD	LOQ	Result	Result
	mg/g	mg/g	%	mg/g
THCa	0.250	0.757	ND	ND
Δ9-THC	0.267	0.810	ND	ND
Δ8-THC	0.295	0.895	ND	ND
THCVa	0.288	0.873	ND	ND
THCV	0.298	0.903	ND	ND
CBDa	0.262	0.793	ND	ND
CBD	0.252	0.765	ND	ND
CBN	0.238	0.720	ND	ND
CBGa	0.284	0.862	ND	ND
CBG	0.262	0.794	ND	ND
CBCa	0.232	0.702	ND	ND
CBC	0.272	0.825	ND	ND
Total THC			ND	ND
Total CBD			ND	ND
Total Cannabinoids			ND	ND
Sum of Cannabinoids			ND	ND

Total THC = THCa * 0.877 + Δ9-THC + Δ8-THC; Total CBD = CBDa * 0.877 + CBD; Total Cannabinoids = (cannabinoid acid forms * 0.877) + cannabinoids; Sum of Cannabinoids = cannabinoid acid forms + cannabinoids; LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected. The reported result is based on a sample weight with the applicable moisture content for that sample. Foreign Material Method: SOP EL-FOREIGN; Moisture and Water Activity Method: SOP EL-WATER



Kevin Nolan

Kevin Nolan
Laboratory Director | 02/28/2024



RM 1-41

METRC Batch:
METRC Sample:
Sample ID: 2402ENC1774_5453
Strain: RM 1-41
Matrix: Other
Type: Pure Terpenes
Batch#:

Collected: 02/23/2024
Received: 02/23/2024
Completed: 02/28/2024
Sample Size: 1 units;

Distributor
Loud Spectrum

Lic. #
1907 N Main St,
Santa Ana, CA, 92706

Pesticides

Method: EL-PESTMVLCOLCMS

Analytes	LOD	LOQ	Limit	Result	Status	Analytes	LOD	LOQ	Limit	Result	Status
	µg/g	µg/g	µg/g	µg/g			µg/g	µg/g	µg/g	µg/g	
Abamectin	0.005	0.02	0.30	ND	Pass	Fludioxonil	0.01	0.05	30.00	ND	Pass
Acephate	0.002	0.01	5.00	ND	Pass	Hexythiazox	0.005	0.02	2.00	ND	Pass
Acequinocyl	0.01	0.02	4.00	ND	Pass	Imazalil	0.05	0.1	0.05	ND	Pass
Acetamiprid	0.005	0.02	5.00	ND	Pass	Imidacloprid	0.005	0.02	3.00	ND	Pass
Aldicarb	0.05	0.1	0.05	ND	Pass	Kresoxim Methyl	0.005	0.02	1.00	ND	Pass
Azoxystrobin	0.005	0.02	40.00	ND	Pass	Malathion	0.02	0.05	5.00	ND	Pass
Bifenazate	0.005	0.01	5.00	ND	Pass	Metaxyl	0.002	0.005	15.00	ND	Pass
Bifenthrin	0.02	0.05	0.50	ND	Pass	Methiocarb	0.05	0.1	0.05	ND	Pass
Boscalid	0.02	0.05	10.00	ND	Pass	Methomyl	0.01	0.02	0.10	ND	Pass
Captan	0.2	0.3	5.00	ND	Pass	Parathion Methyl	0.02	0.05	0.02	ND	Pass
Carbaryl	0.02	0.05	0.50	ND	Pass	Mevinphos	0.02	0.05	0.02	ND	Pass
Carbofuran	0.05	0.1	0.05	ND	Pass	Myclobutanil	0.005	0.01	9.00	ND	Pass
Chlorantraniliprole	0.002	0.01	40.00	ND	Pass	Naled	0.01	0.02	0.50	ND	Pass
Chlordane	0.05	0.1	0.05	ND	Pass	Oxamyl	0.005	0.01	0.20	ND	Pass
Chlorfenapyr	0.05	0.1	0.05	ND	Pass	Paclobutrazol	0.05	0.1	0.05	ND	Pass
Chlorpyrifos	0.05	0.1	0.05	ND	Pass	PCNB	0.02	0.05	0.20	ND	Pass
Clofentezine	0.01	0.02	0.50	ND	Pass	Permethrin	0.02	0.05	20.00	ND	Pass
Coumaphos	0.02	0.05	0.02	ND	Pass	Phosmet	0.01	0.02	0.20	ND	Pass
Cyfluthrin	0.05	0.1	1.00	ND	Pass	Piperonyl Butoxide	0.02	0.05	8.00	ND	Pass
Cypermethrin	0.1	0.2	1.00	ND	Pass	Prallethrin	0.005	0.02	0.40	ND	Pass
Daminozide	0.02	0.05	0.02	ND	Pass	Propiconazole	0.005	0.01	0.10	ND	Pass
Diazinon	0.002	0.01	0.20	ND	Pass	Propoxure	0.05	0.1	0.05	ND	Pass
Dichlorvos	0.02	0.05	0.02	ND	Pass	Pyrethrins	0.02	0.05	1.00	ND	Pass
Dimethoate	0.02	0.05	0.02	ND	Pass	Pyridaben	0.005	0.01	3.00	ND	Pass
Dimethomorph	0.005	0.02	20.00	ND	Pass	Spinetoram	0.005	0.01	3.00	ND	Pass
Ethoprophos	0.05	0.1	0.05	ND	Pass	Spinosad	0.005	0.01	3.00	ND	Pass
Etofenprox	0.05	0.1	0.05	ND	Pass	Spiromesifen	0.01	0.02	12.00	ND	Pass
Etozazole	0.005	0.02	1.50	ND	Pass	Spirotetramat	0.005	0.01	13.00	ND	Pass
Fenhexamid	0.005	0.02	10.00	ND	Pass	Spiroxamine	0.05	0.1	0.05	ND	Pass
Fenoxycarb	0.05	0.1	0.05	ND	Pass	Tebuconazole	0.005	0.01	2.00	ND	Pass
Fenpyroximate	0.005	0.02	2.00	ND	Pass	Thiacloprid	0.02	0.05	0.02	ND	Pass
Fipronil	0.05	0.1	0.05	ND	Pass	Thiamethoxam	0.005	0.01	4.50	ND	Pass
Flonicamid	0.01	0.02	2.00	ND	Pass	Trifloxystrobin	0.005	0.01	30.00	ND	Pass

Date Tested: 02/27/2024

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.



Kevin Nolan

Kevin Nolan
Laboratory Director | 02/28/2024



RM 1-41

METRC Batch:
METRC Sample:
Sample ID: 2402ENC1774_5453
Strain: RM 1-41
Matrix: Other
Type: Pure Terpenes
Batch#:

Collected: 02/23/2024
Received: 02/23/2024
Completed: 02/28/2024
Sample Size: 1 units;

Distributor
Loud Spectrum

Lic. #
1907 N Main St,
Santa Ana, CA, 92706

Residual Solvents

Method: EL-RES_SOLVENTS

Analytes	LOD	LOQ	Limit	Result	Status
	µg/g	µg/g	µg/g	µg/g	
Acetone	100.00	300.00	5000	<LOQ	Pass
Acetonitrile	100.00	300.00	410	ND	Pass
Benzene	0.90	2.80	1	ND	Pass
Butane	100.00	300.00	5000	ND	Pass
Chloroform	1.00	2.90	1	ND	Pass
Ethanol	100.00	300.00	5000	ND	Pass
Ethyl-Acetate	100.00	300.00	5000	ND	Pass
Ethyl-Ether	100.00	300.00	5000	ND	Pass
Ethylene Oxide	0.80	2.40	1	ND	Pass
Heptane	100.00	300.00	5000	ND	Pass
n-Hexane	100.00	300.00	290	ND	Pass
Isopropanol	100.00	300.00	5000	ND	Pass
Methanol	100.00	300.00	3000	ND	Pass
Methylene-Chloride	1.00	3.10	1	ND	Pass
1,2-Dichloro-Ethane	1.00	2.90	1	ND	Pass
Pentane	100.00	300.00	5000	ND	Pass
Propane	100.00	300.00	5000	ND	Pass
Toluene	100.00	300.00	890	ND	Pass
Xylenes	200.00	600.00	2170	ND	Pass
Trichloroethene	1.00	2.90	1	ND	Pass

Date Tested: 02/23/2024

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.

*Residual Solvents analysis values derived from a modified method.

*LODs/LOQs raised by a factor of 10x.

Heavy Metals

Method: SOP EL-HEAVYMETALS

Analytes	LOD	LOQ	Limit	Result	Status
	µg/g	µg/g	µg/g	µg/g	
Arsenic	0.012	0.036	1.500	ND	Pass
Cadmium	0.015	0.044	0.500	ND	Pass
Lead	0.055	0.167	0.500	ND	Pass
Mercury	0.005	0.015	3.000	ND	Pass

Date Tested: 02/26/2024

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.



Kevin Nolan

Kevin Nolan
Laboratory Director | 02/28/2024



RM 42-83

METRC Batch:
METRC Sample:
Sample ID: 2402ENC1774_5452
Strain: RM 42-83
Matrix: Other
Type: Pure Terpenes
Batch#:

Collected: 02/23/2024
Received: 02/23/2024
Completed: 02/28/2024
Sample Size: 1 units;

Distributor
Loud Spectrum

Lic. #
1907 N Main St,
Santa Ana, CA, 92706



Summary

Test	Date Tested	Instr. Method	Result
Batch			Pass
Cannabinoids	02/23/2024	LC-DAD	Complete
Pesticides	02/27/2024	LC-MS	Pass
Residual Solvents	02/23/2024	HS-GC-MS	Pass
Heavy Metals	02/26/2024	ICP-MS	Pass

Cannabinoids

Method: SOP EL-CANNABINOIDS

ND Total THC	ND Total CBD	ND Total Cannabinoids
------------------------	------------------------	---------------------------------

Analytes	LOD	LOQ	Result	Result
	mg/g	mg/g	%	mg/g
THCa	0.245	0.743	ND	ND
Δ9-THC	0.263	0.796	ND	ND
Δ8-THC	0.290	0.880	ND	ND
THCVa	0.283	0.858	ND	ND
THCV	0.293	0.887	ND	ND
CBDa	0.257	0.780	ND	ND
CBD	0.248	0.751	ND	ND
CBN	0.234	0.708	ND	ND
CBGa	0.279	0.847	ND	ND
CBG	0.258	0.781	ND	ND
CBCa	0.228	0.690	ND	ND
CBC	0.267	0.811	ND	ND
Total THC			ND	ND
Total CBD			ND	ND
Total Cannabinoids			ND	ND
Sum of Cannabinoids			ND	ND

Total THC = THCa * 0.877 + Δ9-THC + Δ8-THC; Total CBD = CBDa * 0.877 + CBD; Total Cannabinoids = (cannabinoid acid forms * 0.877) + cannabinoids; Sum of Cannabinoids = cannabinoid acid forms + cannabinoids; LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected. The reported result is based on a sample weight with the applicable moisture content for that sample. Foreign Material Method: SOP EL-FOREIGN; Moisture and Water Activity Method: SOP EL-WATER



Kevin Nolan

Kevin Nolan
Laboratory Director | 02/28/2024



RM 42-83

METRC Batch:
METRC Sample:
Sample ID: 2402ENC1774_5452
Strain: RM 42-83
Matrix: Other
Type: Pure Terpenes
Batch#:

Collected: 02/23/2024
Received: 02/23/2024
Completed: 02/28/2024
Sample Size: 1 units;

Distributor
Loud Spectrum

Lic. #
1907 N Main St,
Santa Ana, CA, 92706

Pesticides

Method: EL-PESTMVLCOLCMS

Analytes	LOD	LOQ	Limit	Result	Status	Analytes	LOD	LOQ	Limit	Result	Status
	µg/g	µg/g	µg/g	µg/g			µg/g	µg/g	µg/g	µg/g	
Abamectin	0.005	0.02	0.30	ND	Pass	Fludioxonil	0.01	0.05	30.00	ND	Pass
Acephate	0.002	0.01	5.00	ND	Pass	Hexythiazox	0.005	0.02	2.00	ND	Pass
Acequinocyl	0.01	0.02	4.00	ND	Pass	Imazalil	0.05	0.1	0.05	ND	Pass
Acetamiprid	0.005	0.02	5.00	ND	Pass	Imidacloprid	0.005	0.02	3.00	ND	Pass
Aldicarb	0.05	0.1	0.05	ND	Pass	Kresoxim Methyl	0.005	0.02	1.00	ND	Pass
Azoxystrobin	0.005	0.02	40.00	ND	Pass	Malathion	0.02	0.05	5.00	ND	Pass
Bifenazate	0.005	0.01	5.00	ND	Pass	Metalaxyl	0.002	0.005	15.00	ND	Pass
Bifenthrin	0.02	0.05	0.50	ND	Pass	Methiocarb	0.05	0.1	0.05	ND	Pass
Boscalid	0.02	0.05	10.00	ND	Pass	Methomyl	0.01	0.02	0.10	ND	Pass
Captan	0.2	0.3	5.00	ND	Pass	Parathion Methyl	0.02	0.05	0.02	ND	Pass
Carbaryl	0.02	0.05	0.50	ND	Pass	Mevinphos	0.02	0.05	0.02	ND	Pass
Carbofuran	0.05	0.1	0.05	ND	Pass	Myclobutanil	0.005	0.01	9.00	ND	Pass
Chlorantraniliprole	0.002	0.01	40.00	ND	Pass	Naled	0.01	0.02	0.50	ND	Pass
Chlordane	0.05	0.1	0.05	ND	Pass	Oxamyl	0.005	0.01	0.20	ND	Pass
Chlorfenapyr	0.05	0.1	0.05	ND	Pass	Paclobutrazol	0.05	0.1	0.05	ND	Pass
Chlorpyrifos	0.05	0.1	0.05	ND	Pass	PCNB	0.02	0.05	0.20	ND	Pass
Clofentezine	0.01	0.02	0.50	ND	Pass	Permethrin	0.02	0.05	20.00	ND	Pass
Coumaphos	0.02	0.05	0.02	ND	Pass	Phosmet	0.01	0.02	0.20	ND	Pass
Cyfluthrin	0.05	0.1	1.00	ND	Pass	Piperonyl Butoxide	0.02	0.05	8.00	ND	Pass
Cypermethrin	0.1	0.2	1.00	ND	Pass	Prallethrin	0.005	0.02	0.40	ND	Pass
Daminozide	0.02	0.05	0.02	ND	Pass	Propiconazole	0.005	0.01	0.10	ND	Pass
Diazinon	0.002	0.01	0.20	ND	Pass	Propoxure	0.05	0.1	0.05	ND	Pass
Dichlorvos	0.02	0.05	0.02	ND	Pass	Pyrethrins	0.02	0.05	1.00	ND	Pass
Dimethoate	0.02	0.05	0.02	ND	Pass	Pyridaben	0.005	0.01	3.00	ND	Pass
Dimethomorph	0.005	0.02	20.00	ND	Pass	Spinetoram	0.005	0.01	3.00	ND	Pass
Ethoprophos	0.05	0.1	0.05	ND	Pass	Spinosad	0.005	0.01	3.00	ND	Pass
Etofenprox	0.05	0.1	0.05	ND	Pass	Spiromesifen	0.01	0.02	12.00	ND	Pass
Etozazole	0.005	0.02	1.50	ND	Pass	Spirotetramat	0.005	0.01	13.00	ND	Pass
Fenhexamid	0.005	0.02	10.00	ND	Pass	Spiroxamine	0.05	0.1	0.05	ND	Pass
Fenoxycarb	0.05	0.1	0.05	ND	Pass	Tebuconazole	0.005	0.01	2.00	ND	Pass
Fenpyroximate	0.005	0.02	2.00	ND	Pass	Thiacloprid	0.02	0.05	0.02	ND	Pass
Fipronil	0.05	0.1	0.05	ND	Pass	Thiamethoxam	0.005	0.01	4.50	ND	Pass
Flonicamid	0.01	0.02	2.00	ND	Pass	Trifloxystrobin	0.005	0.01	30.00	ND	Pass

Date Tested: 02/27/2024

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.



Kevin Nolan

Kevin Nolan
Laboratory Director | 02/28/2024



RM 42-83

METRC Batch:
METRC Sample:
Sample ID: 2402ENC1774_5452
Strain: RM 42-83
Matrix: Other
Type: Pure Terpenes
Batch#:

Collected: 02/23/2024
Received: 02/23/2024
Completed: 02/28/2024
Sample Size: 1 units;

Distributor
Loud Spectrum

Lic. #
1907 N Main St,
Santa Ana, CA, 92706

Residual Solvents

Method: EL-RES_SOLVENTS

Analytes	LOD	LOQ	Limit	Result	Status
	µg/g	µg/g	µg/g	µg/g	
Acetone	100.00	300.00	5000	<LOQ	Pass
Acetonitrile	100.00	300.00	410	ND	Pass
Benzene	0.90	2.80	1	ND	Pass
Butane	100.00	300.00	5000	ND	Pass
Chloroform	1.00	2.90	1	ND	Pass
Ethanol	100.00	300.00	5000	ND	Pass
Ethyl-Acetate	100.00	300.00	5000	ND	Pass
Ethyl-Ether	100.00	300.00	5000	ND	Pass
Ethylene Oxide	0.80	2.40	1	ND	Pass
Heptane	100.00	300.00	5000	ND	Pass
n-Hexane	100.00	300.00	290	ND	Pass
Isopropanol	100.00	300.00	5000	ND	Pass
Methanol	100.00	300.00	3000	ND	Pass
Methylene-Chloride	1.00	3.10	1	ND	Pass
1,2-Dichloro-Ethane	1.00	2.90	1	ND	Pass
Pentane	100.00	300.00	5000	ND	Pass
Propane	100.00	300.00	5000	ND	Pass
Toluene	100.00	300.00	890	ND	Pass
Xylenes	200.00	600.00	2170	ND	Pass
Trichloroethene	1.00	2.90	1	ND	Pass

Date Tested: 02/23/2024

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.

*Residual Solvents analysis values derived from a modified method.

*LODs/LOQs raised by a factor of 10x.

Heavy Metals

Method: SOP EL-HEAVYMETALS

Analytes	LOD	LOQ	Limit	Result	Status
	µg/g	µg/g	µg/g	µg/g	
Arsenic	0.012	0.036	1.500	ND	Pass
Cadmium	0.015	0.044	0.500	ND	Pass
Lead	0.055	0.167	0.500	ND	Pass
Mercury	0.005	0.015	3.000	ND	Pass

Date Tested: 02/26/2024

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.



Kevin Nolan

Kevin Nolan
Laboratory Director | 02/28/2024



RM 84-121

METRC Batch:
METRC Sample:
Sample ID: 2402ENC1774_5454
Strain: RM 84-121
Matrix: Other
Type: Pure Terpenes
Batch#:

Collected: 02/23/2024
Received: 02/23/2024
Completed: 02/28/2024
Sample Size: 1 units;

Distributor
Loud Spectrum

Lic. #
1907 N Main St,
Santa Ana, CA, 92706



Summary

Test	Date Tested	Instr. Method	Result
Batch			Pass
Cannabinoids	02/23/2024	LC-DAD	Complete
Pesticides	02/27/2024	LC-MS	Pass
Residual Solvents	02/23/2024	HS-GC-MS	Pass
Heavy Metals	02/26/2024	ICP-MS	Pass

Cannabinoids

Method: SOP EL-CANNABINOIDS

ND Total THC	ND Total CBD	ND Total Cannabinoids
------------------------	------------------------	---------------------------------

Analytes	LOD	LOQ	Result	Result
	mg/g	mg/g	%	mg/g
THCa	0.249	0.755	ND	ND
Δ9-THC	0.267	0.808	ND	ND
Δ8-THC	0.295	0.893	ND	ND
THCVa	0.288	0.871	ND	ND
THCV	0.297	0.901	ND	ND
CBDa	0.261	0.792	ND	ND
CBD	0.252	0.763	ND	ND
CBN	0.237	0.719	ND	ND
CBGa	0.284	0.860	ND	ND
CBG	0.262	0.793	ND	ND
CBCa	0.231	0.701	ND	ND
CBC	0.272	0.823	ND	ND
Total THC			ND	ND
Total CBD			ND	ND
Total Cannabinoids			ND	ND
Sum of Cannabinoids			ND	ND

Total THC = THCa * 0.877 + Δ9-THC + Δ8-THC; Total CBD = CBDa * 0.877 + CBD; Total Cannabinoids = (cannabinoid acid forms * 0.877) + cannabinoids; Sum of Cannabinoids = cannabinoid acid forms + cannabinoids; LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected. The reported result is based on a sample weight with the applicable moisture content for that sample. Foreign Material Method: SOP EL-FOREIGN; Moisture and Water Activity Method: SOP EL-WATER



Kevin Nolan

Kevin Nolan
Laboratory Director | 02/28/2024



RM 84-121

METRC Batch:
METRC Sample:
Sample ID: 2402ENC1774_5454
Strain: RM 84-121
Matrix: Other
Type: Pure Terpenes
Batch#:

Collected: 02/23/2024
Received: 02/23/2024
Completed: 02/28/2024
Sample Size: 1 units;

Distributor
Loud Spectrum

Lic. #
1907 N Main St,
Santa Ana, CA, 92706

Pesticides

Method: EL-PESTMVLCOLCMS

Analytes	LOD	LOQ	Limit	Result	Status	Analytes	LOD	LOQ	Limit	Result	Status
	µg/g	µg/g	µg/g	µg/g			µg/g	µg/g	µg/g	µg/g	
Abamectin	0.005	0.02	0.30	ND	Pass	Fludioxonil	0.01	0.05	30.00	ND	Pass
Acephate	0.002	0.01	5.00	ND	Pass	Hexythiazox	0.005	0.02	2.00	ND	Pass
Acequinocyl	0.01	0.02	4.00	ND	Pass	Imazalil	0.05	0.1	0.05	ND	Pass
Acetamiprid	0.005	0.02	5.00	ND	Pass	Imidacloprid	0.005	0.02	3.00	ND	Pass
Aldicarb	0.05	0.1	0.05	ND	Pass	Kresoxim Methyl	0.005	0.02	1.00	ND	Pass
Azoxystrobin	0.005	0.02	40.00	ND	Pass	Malathion	0.02	0.05	5.00	ND	Pass
Bifenazate	0.005	0.01	5.00	ND	Pass	Metalaxyl	0.002	0.005	15.00	ND	Pass
Bifenthrin	0.02	0.05	0.50	ND	Pass	Methiocarb	0.05	0.1	0.05	ND	Pass
Boscalid	0.02	0.05	10.00	ND	Pass	Methomyl	0.01	0.02	0.10	ND	Pass
Captan	0.2	0.3	5.00	ND	Pass	Parathion Methyl	0.02	0.05	0.02	ND	Pass
Carbaryl	0.02	0.05	0.50	ND	Pass	Mevinphos	0.02	0.05	0.02	ND	Pass
Carbofuran	0.05	0.1	0.05	ND	Pass	Myclobutanil	0.005	0.01	9.00	ND	Pass
Chlorantraniliprole	0.002	0.01	40.00	ND	Pass	Naled	0.01	0.02	0.50	ND	Pass
Chlordane	0.05	0.1	0.05	ND	Pass	Oxamyl	0.005	0.01	0.20	ND	Pass
Chlorfenapyr	0.05	0.1	0.05	ND	Pass	Paclobutrazol	0.05	0.1	0.05	ND	Pass
Chlorpyrifos	0.05	0.1	0.05	ND	Pass	PCNB	0.02	0.05	0.20	ND	Pass
Clofentezine	0.01	0.02	0.50	ND	Pass	Permethrin	0.02	0.05	20.00	ND	Pass
Coumaphos	0.02	0.05	0.02	ND	Pass	Phosmet	0.01	0.02	0.20	ND	Pass
Cyfluthrin	0.05	0.1	1.00	ND	Pass	Piperonyl Butoxide	0.02	0.05	8.00	ND	Pass
Cypermethrin	0.1	0.2	1.00	ND	Pass	Prallethrin	0.005	0.02	0.40	ND	Pass
Daminozide	0.02	0.05	0.02	ND	Pass	Propiconazole	0.005	0.01	0.10	ND	Pass
Diazinon	0.002	0.01	0.20	ND	Pass	Propoxure	0.05	0.1	0.05	ND	Pass
Dichlorvos	0.02	0.05	0.02	ND	Pass	Pyrethrins	0.02	0.05	1.00	ND	Pass
Dimethoate	0.02	0.05	0.02	ND	Pass	Pyridaben	0.005	0.01	3.00	ND	Pass
Dimethomorph	0.005	0.02	20.00	ND	Pass	Spinetoram	0.005	0.01	3.00	ND	Pass
Ethoprophos	0.05	0.1	0.05	ND	Pass	Spinosad	0.005	0.01	3.00	ND	Pass
Etofenprox	0.05	0.1	0.05	ND	Pass	Spiromesifen	0.01	0.02	12.00	ND	Pass
Etozazole	0.005	0.02	1.50	ND	Pass	Spirotetramat	0.005	0.01	13.00	ND	Pass
Fenhexamid	0.005	0.02	10.00	ND	Pass	Spiroxamine	0.05	0.1	0.05	ND	Pass
Fenoxycarb	0.05	0.1	0.05	ND	Pass	Tebuconazole	0.005	0.01	2.00	ND	Pass
Fenpyroximate	0.005	0.02	2.00	ND	Pass	Thiacloprid	0.02	0.05	0.02	ND	Pass
Fipronil	0.05	0.1	0.05	ND	Pass	Thiamethoxam	0.005	0.01	4.50	ND	Pass
Flonicamid	0.01	0.02	2.00	ND	Pass	Trifloxystrobin	0.005	0.01	30.00	ND	Pass

Date Tested: 02/27/2024

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.



Kevin Nolan

Kevin Nolan
Laboratory Director | 02/28/2024



RM 84-121

METRC Batch:
METRC Sample:
Sample ID: 2402ENC1774_5454
Strain: RM 84-121
Matrix: Other
Type: Pure Terpenes
Batch#:

Collected: 02/23/2024
Received: 02/23/2024
Completed: 02/28/2024
Sample Size: 1 units;

Distributor
Loud Spectrum

Lic. #
1907 N Main St,
Santa Ana, CA, 92706

Residual Solvents

Method: EL-RES_SOLVENTS

Analytes	LOD	LOQ	Limit	Result	Status
	µg/g	µg/g	µg/g	µg/g	
Acetone	100.00	300.00	5000	<LOQ	Pass
Acetonitrile	100.00	300.00	410	ND	Pass
Benzene	0.90	2.80	1	ND	Pass
Butane	100.00	300.00	5000	ND	Pass
Chloroform	1.00	2.90	1	ND	Pass
Ethanol	100.00	300.00	5000	ND	Pass
Ethyl-Acetate	100.00	300.00	5000	ND	Pass
Ethyl-Ether	100.00	300.00	5000	ND	Pass
Ethylene Oxide	0.80	2.40	1	ND	Pass
Heptane	100.00	300.00	5000	ND	Pass
n-Hexane	100.00	300.00	290	ND	Pass
Isopropanol	100.00	300.00	5000	ND	Pass
Methanol	100.00	300.00	3000	ND	Pass
Methylene-Chloride	1.00	3.10	1	ND	Pass
1,2-Dichloro-Ethane	1.00	2.90	1	ND	Pass
Pentane	100.00	300.00	5000	ND	Pass
Propane	100.00	300.00	5000	ND	Pass
Toluene	100.00	300.00	890	ND	Pass
Xylenes	200.00	600.00	2170	ND	Pass
Trichloroethene	1.00	2.90	1	ND	Pass

Date Tested: 02/23/2024

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.

*Residual Solvents analysis values derived from a modified method.

*LODs/LOQs raised by a factor of 10x.

Heavy Metals

Method: SOP EL-HEAVYMETALS

Analytes	LOD	LOQ	Limit	Result	Status
	µg/g	µg/g	µg/g	µg/g	
Arsenic	0.012	0.036	1.500	ND	Pass
Cadmium	0.015	0.044	0.500	ND	Pass
Lead	0.055	0.167	0.500	ND	Pass
Mercury	0.005	0.015	3.000	ND	Pass

Date Tested: 02/26/2024

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.



Kevin Nolan

Kevin Nolan
Laboratory Director | 02/28/2024

